

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of the claims in this application.

Listing of Claims:

1. (Currently Amended) A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:

a pump housing;

a pumping mechanism associated with the pump housing adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion of the tube set; and

a tube snap set adapted to permit forceable insertion and removal of a slack portion of the tube set;

wherein the tube snap set includes an inboard tube snap and a outboard tube snap non-coaxial with and radially spaced from the inboard tube snap, the tube snap set being adapted to receive and slidably retain a slack portion of the tube set between the inboard tube snap and the outboard tube snap such that the retained slack portion is adjustable in length.

2. (Original) The medical pump of claim 1, wherein the tube snap set is located remote from the pumping mechanism and on a handle portion of the pump housing.

3. (Cancelled)

4. (Currently Amended) The medical pump of claim 31, wherein the pump housing has a pair of laterally spaced elongated grooves formed therein that defines the first and second inboard and outboard tube snaps, each groove has a pair of opposing tapered edges and an opening extending therebetween.

5. (Original) The medical pump of claim 4, wherein the opening of the groove is C-shaped.

6. (Original) The medical pump of claim 1, further comprising a tube hanger attached to the pump housing to receive and removably secure a slack portion of the tube set to the pump.
7. (Original) The medical pump of claim 6, wherein the tube hanger includes a main arm extending outwardly from the pump housing and at least one hook extending laterally from the main arm in spaced relation to the pump housing so as to receive and hold a slack portion between the hook and the pump housing.
8. (Original) The medical pump of claim 7, wherein the main arm of the tube hanger is attached to a bottom wall of the pump housing.
9. (Original) The medical pump of claim 7, wherein the main arm of the tube hanger is attached to a front wall of the housing.
10. (Original) The medical pump of claim 7, wherein the pump housing includes a housing recess located behind the hook of the tube hanger.
11. (Original) The medical pump of claim 10, wherein the housing recess extends from a front wall of the pump housing to a bottom wall of the pump housing.
12. (Original) The medical pump of claim 7, wherein the tube hanger includes two hooks extending in opposite directions from the main arm, each hook having a proximate end attached to the main arm and a distal end positioned relative to the pump housing so as to define an insertion gap adapted to permit a slack portion of the tube set to be snappingly passed therethrough.
13. (Original) The medical pump of claim 12, wherein the insertion gap opens into a tube retention space defined between the pump housing and the hook, the hook being constructed so that the tube retention space increases in width and then decreases in width between the distal end of the hook and the proximate end of the hook.

14. (Currently Amended) The medical pump of claim 34, wherein the pumping mechanism is adapted to pump fluid in a fluid flow direction and at least one of the grooves extends generally parallel to the fluid flow direction.

15. (Original) The medical pump of claim 14, wherein both of the grooves extend generally parallel to the fluid flow direction.

16. (Original) The medical pump of claim 14, wherein the fluid flow direction is generally vertical.

17. (Original) The medical pump of claim 14, wherein the grooves are located on a handle portion of the pump housing.

18. (Currently Amended) A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:

a pump housing including a user interface screen thereon;

a pumping mechanism associate with the pump housing and adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion; and

a tube hanger attached to a wall of the pump housing below the user interface screen and adapted to receive and removably secure a slack portion of line to the pump at a location remote from the pumping mechanism.

19. (Original) The medical pump of claim 18, wherein the tube hanger includes a main arm extending outwardly from the pump housing and at least one hook extending laterally from the main arm in spaced relation to the pump housing so as to receive and hold a slack portion between the hook and the pump housing.

20. (Cancelled)

21. (Cancelled)

22. (Currently Amended) The medical pump of claim 19, wherein the pump housing has a front wall that includes the user interface screen and the main arm of the tube hanger is attached to the front wall of the pump housing below the user interface screen.
23. (Original) The medical pump of claim 19, wherein the pump housing includes a housing recess located behind the hook of the tube hanger.
24. (Original) The medical pump of claim 23, wherein the housing recess extends from a front wall of the pump housing to a bottom wall of the pump housing.
25. (Original) The medical pump of claim 19, wherein the tube hanger includes two hooks extending in opposite directions from the main arm, each hook having a proximate end attached to the main arm and a distal end positioned relative to the pump housing so as to define an insertion gap adapted to permit a slack portion of the tube set to be snappingly passed therethrough.
26. (Original) The medical pump of claim 25, wherein the insertion gap opens into a tube retention space defined between the pump housing and the hook, the hook being constructed so that the tube retention space increases in width and then decreases in width between the distal end of the hook and the proximate end of the hook.
27. (Cancelled)
28. (Currently Amended) The medical pump of claim 271, wherein the tube snap set is located above and in generally vertically vertical alignment with the pumping mechanism.
29. (Cancelled)
30. (Currently Amended) The medical pump of claim 2928, wherein the pumping mechanism is a cassette pump.
31. (New) A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:  
a pump housing;

a pumping mechanism associated with the pump housing adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion of the tube set; and  
a tube snap set adapted to permit insertion and removal of a slack portion of the tube set; wherein the tube snap set is located remote from the pumping mechanism and on a handle portion of the pump housing.

32. (New) A medical pump for use with a tube set having inlet, outlet, slack and operative line portions, comprising:  
a pump housing;  
a pumping mechanism associate with the pump housing and adapted to receive an operative line portion of a tube set and to pump fluid from an inlet line portion and into an outlet line portion; and  
a tube hanger attached to the pump housing and adapted to receive and removably secure a slack portion of line to the pump at a location remote from the pumping mechanism; wherein the tube hanger includes a main arm extending outwardly from the pump housing and at least one hook extending laterally from the main arm in spaced relation to the pump housing so as to receive and hold a slack portion between the hook and the pump housing;  
wherein the at least one hook has a proximate end attached to the main arm and a distal end positioned relative to the pump housing so as to define an insertion gap that permits a slack portion of the tube set to be snappingly passed therethrough.